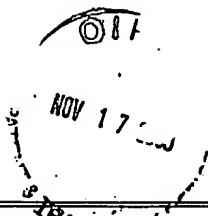




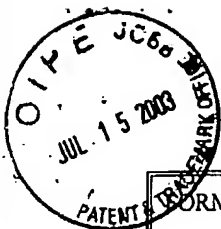
SHEET 1 OF 2

FORM PTO-1449		DOCKET NUMBER FGT 386 (202-0402)		APPLICATION NUMBER 10/064,006		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANTS Gopichandra Surnilla and John M. Roth				
		FILING DATE June 4, 2002		GROUP ART UNIT 3747		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
RM	4,134,261	01-16-1979	Iizuka et al.			
	4,207,855	06-1980	Phillips			
	4,467,602	08-28-1984	Iizuka et al.			
	4,860,716	08-1989	Deutschmann			
	5,496,228	03-05-1996	Takata et al.			
	5,778,666	07-1998	Cullen et al.			
	5,930,992	08-1999	Esch et al.			
	5,950,603	09-1999	Cook et al.			
	6,014,963	01-2000	Narita			
	6,158,218	12-2000	Herold et al.			
10	6,161,531	12-2000	Hamburg et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
SA	10107158 A1	08-2001	DE			
BN						X
OTHER DOCUMENTS						
EXAMINER MSHAWM			DATE CONSIDERED 7-22-04			

SHEET 2 OF 2

INFORMATION DISCLOSURE CITATION IN AN APPLICATION			DOCKET NUMBER FGT 386 (202-0402)		APPLICATION NUMBER 10/064,006	
			APPLICANTS Gopichandra Surnilla and John M. Roth			
			FILING DATE June 4, 2002		GROUP ART UNIT 3747	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
B	6,247,445	06-2001	Langer			
	2001/0011540	08-2001	Mashiki			
B	6,349,710 B1	02-2002	Kawai et al.			
B	6,367,443	04-2002	Bassi et al.			
B	6,382,193	05-2002	Boyer et al.			
B	6,389,806	05-2002	Glugla et al.			
B	6,408,618	06-25-2002	Ide			
B	6,415,601	07-2002	Glugla et al.			
B	6,513,509 B1	02-2003	Matsumoto			
B	6,546,910	04-2003	Tanaka et al.			
B	6,568,177 B1	05-2003	Surnilla			
B	6,619,241 B2	09-2003	Otterspeer et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
EXAMINER			DATE CONSIDERED			
MORAN			7-21-04			

NOT LISTED PROBABLY
ABANDONED
CONSIDERED

SHEET 1 OF 1

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER FGT 386 (202-0402)		APPLICATION NUMBER 10/064,006		
		APPLICANTS Gopichandra Surnilla and John M. Roth				
		FILING DATE June 4, 2002		GROUP ART UNIT 3747		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	3,696,618	10-10-1972	Boyd et al.			
	5,992,142	11-30-1999	Pott			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	55-49549	04-10-1980	JP			X
	55-29002	03-01-1980	JP			X
OTHER DOCUMENTS						
EXAMINER 			DATE CONSIDERED 7-22-04			



Page 1 of 1

(Use several sheets if necessary)

ATTY. DOCKET NO

SERIAL NO

202-0402

10/064,006

APPLICANT
Surnilla et al.

FILING DATE.
06/04/02

GROUP
Unknown

U.S. Patent Documents

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Foreign Patent Documents

[illegible]

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc)

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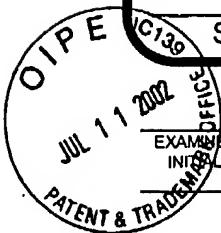
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	To be assigned 10/064,066
Filing Date 6-4-02	Herewith 6-4-02
Applicants	Surnilla; Roth
Group Art Unit	
Examiner Name	
Attorney Docket Number	202-0402

Sheet 7 of 7



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		JOE THEIS et al, "An Air/Fuel Algorithm To Improve The NOx Conversion Of Copper-Based Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89	
		Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 119-127.	
		ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of NOx in Lean Burn Applications", SAE Technical Paper No. 881595, 1998, pp. 1-11.	
		ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980.	
		W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships", SAE 800051, February 25-29, 1980.	
		WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst Characterization Under Cyclic Conditions", SAE 800052, February 25-29, 1980.	
		CHRISTOPHER D. DE BOER et al, "Engineered Control Strategies for Improved Catalytic Control of NOx in Lean Burn Applications", SAE 881595, October 10-13, 1988.	
		TOSHIKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction", JSAE 882072-882186	

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DATE CONSIDERED

7-22-04

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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANTS

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Sheet 1 of 7

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Application Number	To be assigned
Filing Date	Herewith
Applicants	Sumilla; Roth
Group Art Unit	
Examiner Name	
Attorney Docket Number	202-0402

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
BD	✓	3,696,318		Boyd et al	10-10-72	
	✓	3,969,932		Rieger et al	07-20-76	
	✓	4,033,122		Masaki et al	07-05-77	
	✓	4,178,883		Herth	12-18-79	
	✓	4,251,989		Norimatsu et al	02-24-81	
	✓	4,622,809		Abthoff et al	11-18-86	
	✓	4,854,123		Inoue et al	08-08-89	
	✓	4,884,066		Miyata et al	11-28-89	
	✓	4,913,122		Uchida et al	04-03-90	
	✓	5,009,210		Nakagawa et al	04-23-91	
	✓	5,088,281		Izutani et al	02-18-92	
	✓	5,097,700		Nakane	03-24-92	
	✓	5,165,230		Kayanuma et al	11-24-92	
	✓	5,174,111		Nomura et al	12-29-92	
	✓	5,189,876		Hirota et al	03-02-93	
	✓	5,201,802		Hirota et al	04-13-93	
	✓	5,209,061		Takeshima	05-11-93	
U	✓	5,222,471		Stueven	06-29-93	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴ Kind Code ² (if known)			
		DE	198 07 151 C1	Siemens AG	07-10-97	
		EP	0 351 197 A2	Johnson Matthey	01-17-90	
		EP	0 444 785 A1	Lucas Industries	09-04-91	

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANTS

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Sheet 2 of 7

Application Number

To be assigned

Filing Date

Herewith

Applicants

Sumilla; Roth

Group Art Unit

Examiner Name

Attorney Docket Number 202-0402

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
BM	✓	5,233,830		Takeshima et al	08-10-93	
	✓	5,267,439		Raff et al	12-07-93	
	✓	5,270,024		Kasahara et al	12-14-93	
	✓	5,272,871		Oshima et al	12-28-93	
	✓	5,325,664		Seki et al	07-05-94	
	✓	5,331,809		Takeshima et al	07-26-94	
	✓	5,335,538		Blischke et al	08-09-94	
	✓	5,357,750		Ito et al	10-25-94	
	✓	5,377,484		Shimizu	01-03-95	
	✓	5,402,641		Katoh et al	04-04-95	
	✓	5,412,945		Katoh et al	05-09-95	
	✓	5,412,946		Oshima et al	05-09-95	
	✓	5,414,994		Cullen et al	05-16-95	
	✓	5,423,181		Katoh et al	06-13-95	
	✓	5,433,074		Seto et al	07-18-95	
	✓	5,437,153		Takeshima et al	08-01-95	
	✓	5,448,887		Takeshima	09-12-95	
✓	✓	5,450,722		Takeshima et al	09-12-95	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
		JP	2-207159	Toyota	08-18-90	
		JP	2-30915	Toyota	02-01-90	
		JP	2-33408	Toyota	02-02-90	
		JP	3-135417	Matsushita Elec.	08-10-91	
		JP	5-108493	Honda	04-27-93	

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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANTS

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Sheet 3 of 7

Application Number

To be assigned

Filing Date

Herewith

Applicants

Sumilla; Roth

Group Art Unit

Examiner Name

Attorney Docket Number 202-0402

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
ES	✓	5,472,673		Goto et al	12-05-95	
	✓	5,473,887		Takeshima et al	12-12-95	
	✓	5,473,890		Takeshima et al	12-12-95	
	✓	5,483,795		Katoh et al	01-16-96	
	✓	5,544,482		Matsumoto et al	08-13-96	
	✓	5,551,231		Tanaka et al	09-03-96	
	✓	5,577,382		Kihara et al	11-26-96	
	✓	5,595,060		Togai et al	01-21-97	
	✓	5,598,703		Hamburg et al	02-04-97	
	✓	5,622,047		Yamashita et al	04-22-97	
	✓	5,655,363		Ito et al	08-12-97	
	✓	5,657,625		Koga et al	08-19-97	
	✓	5,693,877		Ohsuga et al	12-02-97	
	✓	5,713,199		Takeshima et al	02-03-98	
	✓	5,715,679		Asanuma et al	02-10-98	
	✓	5,724,808		Ito et al	03-10-98	
	✓	5,732,554		Sasaki et al	03-31-98	
	✓	5,735,119		Asanuma et al	04-07-98	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Foreign Patent Document		Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴				
		JP	5-106494		Honda	04-27-93	
		JP	5-26080		Mitsubishi Motors	02-02-93	
		JP	62-117620		Nippon Shokubai	05-29-87	
		JP	6-264787		Nissan Motor	09-20-94	
		JP	62-37830		Nippon Shokubai	05-07-87	

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document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede
serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANTS

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Sheet 4 of 7

Application Number To be assigned

Filing Date Herewith

Applicants Sumilla; Roth

Group Art Unit

Examiner Name

Attorney Docket Number 202-0402

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
SM	✓	5,740,669		Kinugasa et al	04-21-98	
	✓	5,743,084		Hepburn	04-28-98	
	✓	5,748,049		Cullen et al	05-05-98	
	✓	5,746,052		Kinugasa et al	05-05-98	
	✓	5,752,492		Kato et al	05-19-98	
	✓	5,792,436		Feeley et al	08-11-98	
	✓	5,842,340		Bush et al	12-01-98	
	✓	5,885,027		Hanafusa et al	02-02-99	
	✓	5,970,707		Sawada et al	10-26-99	
	✓	5,974,793		Kinugasa et al	11-02-99	
	✓	5,983,627		Asik	11-16-99	
	✓	6,014,859		Yoshizaki et al	01-18-00	
	✓	4,036,014		Ariga	07-19-77	
	✓	4,964,272		Kayanuma	10-23-90	
	✓	5,410,873		Tashiro	05-02-95	
	✓	5,412,945		Kato et al	05-09-95	
	✓	5,419,122		Tabé et al	05-30-95	
	✓	5,437,153		Takeshima et al	08-01-95	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Foreign Patent Document		Kind Code ³ (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴				
		JP	64-53042		Mitsubishi	03-01-89	
		JP	6-58139		Nissan-Motor	03-01-94	
		JP	7-97841		Kazuhiro et al	04-11-95	
		EP	0 351 497 A1		Johnson Matthey	01-17-90	
		EP	0 503 882 A1		S. Takeshima	09-16-92	

EXAMINER

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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANTS

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Sheet 5 of 7

Application Number

To be assigned

Filing Date

Herewith

Applicants

Sumilla; Roth

Group Art Unit

Examiner Name

Attorney Docket Number 202-0402

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5,996,338		Hirota	12-07-99	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
		EP	0 580 389 A1	Toyota	01-26-94	
		WP	98/27322	Ford Motor Co.	06-25-98	
		JP	7-166851	Toyota	06-27-95	

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7-22-04

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Complete if Known

Application Number	To be assigned
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Filing Date	Herewith
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Applicants	Sumilla; Roth
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Group Art Unit

Examiner Name

Attorney Docket Number	202-0402
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Sheet 6 of 7

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EXAMINER INITIAL*	Cite No. 1	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ²	Number ⁴	Kind Code ³ (if known)			

DATE CONSIDERED 7-12-04

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 7 of 7

Complete if Known

Application Number	To be assigned
Filing Date	Herewith
Applicants	Sumilla; Roth
Group Art Unit	
Examiner Name	
Attorney Docket Number	202-0402

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		JOE THEIS et al, "An Air/Fuel Algorithm To Improve The NOx Conversion Of Copper-Based Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89.
		Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 119-127.
		ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of NOx in Lean Burn Applications", SAE Technical Paper No. 881595, 1988, pp. 1-11.
		ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980.
		W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships", SAE 800051, February 25-29, 1980.
		WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst Characterization Under Cyclic Conditions", SAE 800052, February 25-29, 1980.
		CHRISTOPHER D. DE BOER et al, "Engineered Control Strategies for Improved Catalytic Control of NOx in Lean Burn Applications", SAE 881595, October 10-13, 1988.
		TOSHIKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction", JSAE 882072 - 882166

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